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FIKRET KARGI is Professor of Environmental Engineering at Dokuz Eylul University in Ismir, Turkey. His current research includes bioprocessing of wastes for production of commercial products, development of novel technologies for biological treatment of

problematic wastewaters, nutrient removal, and novel biofilm reactor development.

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(07-10-2015, 06:44 PM) kunal bardiya Wrote: sir i have started studying numericals from Doran as per recommendation, so can you forward me solution manual for Doran for 2nd Edition. Heya, I was going through google to look for the solution manual. I found it with quite an ease. Here it is: Bioprocess by Doran Solutions, Part-1:

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(See the comments at the bottom of p125 of Shuler & Kargi on how active transport is different from facilitated transport.) Solution Short answer: eqns 1 & 2: $\text{flux} = D \frac{C_s}{\delta} (C_{s,e} - C_{s,i}) = D \frac{C}{\delta} (C_{i,i} - C_{e,e})$ eqns 3 & 4: $K = \frac{C_{e,e} * S_{e,e}}{C_{s,e}} = \frac{C_{i,i} * S_{i,i}}{C_{s,i}}$ eqn 5: $C_{\text{total}} = (C_{s,e} + C_{s,i} + C_{e,e} + C_{i,i}) / 2$ solve the above 5 equations for 5 unknowns: $C_{s,e}$, $C_{s,i}$, $C_{e,e}$, $C_{i,i}$, & flux Longer answer: more detailed explanation below.

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